

SEQUENCE LISTING

BK beta 2 amino acid, SEQ ID NO:1

5 MTAFPASGKKRETDYSDGDLVDVHKRLPSSTGEDRAVMLGFAMMGFSVLMFFLLGTTILKPFMLSIOREESTCTA
IHTDIMDDWLDCAFTCGVHCHGQKYPCLQVFNLSHPGQKALLHYNEEAVQINPKCFYTPKCHQDRNDLLNSAL
DIKEFFDHKNGTPFSCFYSPASQSEDVILIKKYDQMAIFHCLFWPSLTLGGALIVGMVRLTQHLSSLCEKYSTV
VRDEVGGKVPYIEQHQFKLCIMRRSKGRAEKS

10 BK beta 2 nucleic acid, SEQ ID NO: 2

ATGACAGCCTTTTCCTGCCTCAGGGAAGAAGAGAGAGACAGACTACAGTGATGGAGACCCACTAGATGTGCACAAG
AGGCTGCCATCCAGTACTGGAGAGGACCGAGCCGTGATGCTGGGGTTTGCCATGATGGGCTTCTCAGTCCTAATG
TTCTTCTTGCTCGGAACAACCATTTCTAAAGCCTTTTATGCTCAGCATTGAGAGAGAAGAATCGACCTGCACTGCC
ATCCACACAGATATCATGGACGACTGGCTGGACTGTGCCTTCACCTGTGGTGTGCACTGCCACGGTCAGGGGAAG
15 TACCCGTGTCTTCAGGTGTTTGTGAACCTCAGCCATCCAGGTGAGAAAGCTCTCCTACATTATAATGAAGAGGCT
GTCCAGATAAAATCCCAAGTGCTTTTACACACCTAAGTGCCACCAAGATAGAAATGATTGCTCAACAGTGCTCTG
GACATAAAAGAATTCTTCGATCACAAAATGGAACCCCTTTTCATGCTTCTACAGTCCAGCCAGCCAATCTGAA
GATGTCAATTCTTATAAAAAAGTATGACCAATGGCTATCTTCCACTGTTTATTTTGGCCTTCACTGACTCTGCTA
GGTGGTGGCCTGATTGTTGGCATGGTGAGATTAAACACAACACCTGTCCTTACTGTGTGAAAAATATAGCACTGTA
20 GTCAGAGATGAGGTAGGTGGAAAAAGTACCTTATATAGAACAGCATCAGTTCAAACCTGTGCATTATGAGGAGGAGC
AAAGGAAGAGCAGAGAAATCTTAA

BK beta 3 amino acid, SEQ ID NO:3

25 MAKLRVAYEYTEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQQIGEVFEFTFTCGAD
CRGTSQYPCVQVYVNNSESNRALLHSDHQLLTNPKCSYIPCKRENQKNLESVMNWQQYWKDEIGSQPFTCYF
NQHQRPDDVLLHRTHDEIVLLHCFWPLVTFVVGVLIVVLTICAKSLAVKAEAMKKRKFS

BK beta 3 nucleic acid, SEQ ID NO: 4

30 ATGGCGAAGCTCCGGgTGGcttACGAGTACACGGAAGCCGAGGACAAGAGCATCCGGCTCGGCTTGTTCATC
ATCTCCGGCTCGTGTCTGCTCTTCATCTTCGGCTTCTGCTGGCTGAGTCCCGCGCTGCAGGATCTGCAAGCCACG
GAGGCCAATTGCACGGTGTCTGCTCGGTGCAGCAGATCGGCGAGGTGTTTCGAGTGCACCTTCACCTGTGGCGCCGAC
TGCAGGGGCACCTCGCAGTACCCCTGCGTCCAGGTCTACGTGAACAACTCTGAGTCCAACCTCTAGGGCGCTGCTG
CACAGCGACGAGCACCAAGCTCCTGACCAACCCCAAGTGCTCCTATATCCCTCCCTGTAAGAGAGAGAAATCAGAAG
AATTTGGAAAGTGTCATGAATTGGCAACAGTACTGGAAAGATGAGATTGGTTCAGCCATTACTTGCTATTTT
35 AATCAACATCAAAGACCAGATGATGTGCTTCTGCATCGCACTCATGATGAGATTGTCTCCTGCTGCTTCTCCTC
TGGCCCTGGTGACATTTGTGGTGGGCGTTCTCATTTGTGGTCTGACCATCTGTGCCAAGAGCTTGGCGGTCAAG
GCGGAAGCCATGAAGAAGCGCAAGTTCTCTTAA

BK beta 4 amino acid, SEQ ID NO:5

40 MSIWTSGRITSSSYRHDEKRNIIYQKIRDHDLDDKRKTVTALKAGEDRAILLGLAMMVCSIMMYFLLGITLLRSYMQ
SVWTEESQCTLLNASITETFNCSFSCGPDCKLSQYPCLOVYVNLTSSEKLLLYHTEETIKINQKCSYIPKCGK
NFEESMSLVNVVMENFRKYQHFSYSDPEGNQKSVILTKLYSSNVLFHSLFWPTCMMAGGVAIVAMVKLTQYLSL
LCERIQRINR

45

BK beta 4 nucleic acid, SEQ ID NO: 6

ATGTCGATATGGACCAGTGGCCGGACCTCTTCATCTTATAGACATGATGAAAAAAGAAATATTTACCAGAAAATC
AGGGACCATGACCTCCTGGACAAAAGGAAAACAGTCACAGCACTGAAGGCAGGAGAGGACCGAGCTATTCTCCTG
GGACTGGCTATGATGGTGTGCTCCATCATGATGTATTTTCTGCTGGGAATCACACTCCTGCGCTCATACATGCAG
50 AGCGTGTGGACCGAAGAGTCTCAATGCACCTTGCTGAATGCGTCCATCACGGAACATTTAAATGCTCCTTCAGC

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TGTGGTCCAGACTGCTGGAACTTTCTCAGTACCCCTGCCTCCAGGTGTACGTTAACCTGACTTCTTCCGGGGAA
AAGCTCCTCCTCTACCACACAGAAGAGACAATAAAAATCAATCAGAAGTGCTCCTATATACCTAAATGTGGAAAA
AATTTTGAAGAATCCATGTCCCTGGTGAATGTTGTCATGGAAAACCTCAGGAAGTATCAACACTTCTCCTGCTAT
TCTGACCCAGAAGGAAACCAGAAGAGTGTTATCCTAACMAAACTCTACAGTTCCAACGTGCTGTTCCATTCACTC
TTCTGGCCAACCTGTATGATGGCTGGGGGTGTGGCAATTGTTGCCATGGTGAACTTACACAGTACCTCTCCCTA
CTATGTGAGAGGATCCACGGATCAATAGATAA